

APR 16 2002

K020152
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Premarket Notification - Vertebral Spacer *Ti*

3.0 Summary of Safety and Effectiveness Information

SPONSOR: Synthes Spine Company, L. P.
1690 Russell Road
Paoli, PA 19301
(610) 647-9700
Contact: Jonathan Gilbert

DEVICE NAME: Synthes Vertebral Spacer *Ti*

CLASSIFICATION: Per CFR 21, §888.3060: Implant, fixation, spinal intervertebral body fixation orthosis devices. Class II.
Product code is MQP. The Panel code is 87.

PREDICATE DEVICE: Vertebral body replacement device:
Synthes SynMesh System: K003275
SE date: April 23, 2001.

DEVICE DESCRIPTION: The Vertebral Spacer *Ti* is a titanium vertebral body replacement device used in conjunction with supplemental internal fixation to provide structural stability in skeletally mature individuals following corpectomy or vertebrectomy and consists of:

- vertebral body replacement devices comprised of a variety of fixed heights and cross-sections.
- supplemental fixation currently cleared for use in treating patients for tumor, trauma or fractures of the vertebral body and
- manual surgical instrumentation used to prepare the anatomy and implant the Vertebral Spacer *Ti*.

There are no unique surgical instruments required for implantation of the submitted device system.

INTENDED USE: The Vertebral Spacer *Ti* is a vertebral body replacement device intended for use in the thoracolumbar spine (T1-L5) to replace a collapsed, damaged, or unstable vertebral body due to tumor or trauma (i.e., fracture). The *Ti* Spacer System is intended to be used with Synthes supplemental internal fixation systems, e.g., ATLP, VestroFix, USS and Small Stature USS. The interior of the spacer component of the Vertebral Spacer *Ti* can be packed with bone.

The Vertebral Spacer *Ti* is designed to provide anterior spinal column support even in the absence of fusion for a prolonged period.

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Premarket Notification - Vertebral Spacer Ti

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| MATERIAL: | All components of the Vertebral Spacer <i>Ti</i> are manufactured from commercially pure titanium (ASTM F67) or titanium alloy Ti6Al7Nb (ASTM F1295). |
| PERFORMANCE DATA: | Mechanical testing in accordance with the "Guidance for Industry and FDA Staff, Guidance for Spinal System 510(k)s", September 27, 2000 was presented. |
| BASIS OF SUBSTANTIAL EQUIVALENCE: | The Vertebral Spacer <i>Ti</i> implants are similar to the predicate Synthes SynMesh vertebral body replacement device(s), (K003275) with respect to technical characteristics and performance. The supplemental fixation devices intended for use with the Vertebral Spacer <i>Ti</i> implants are currently cleared for use in patients with either tumor, trauma or fractures. |



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

Jonathan Gilbert
Regulatory Affairs Project Manager
Synthes Spine
1690 Russell Road
Paoli, Pennsylvania 19301

APR 16 2002

Re: K020152
Trade Name: Vertebral Spacer *Ti*
Regulation Number: 21 CFR 888.3060
Regulation Name: Vertebral Body Replacement
Regulatory Class: II
Product Code: MQP
Dated: January 16, 2002
Received: January 17, 2002

Dear Mr. Gilbert:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

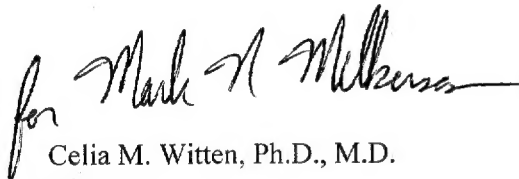
If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

Page 2 – Mr. Jonathan Gilbert

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597, or at its Internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,

A handwritten signature in black ink, appearing to read "for Mark H. Milken".

Celia M. Witten, Ph.D., M.D.
Director
Division of General, Restorative and
Neurological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

2.0 Indications for Use Statement

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510(k) Number (if known): K020152

Device Name: Synthes Vertebral Spacer *Ti*

Indications:

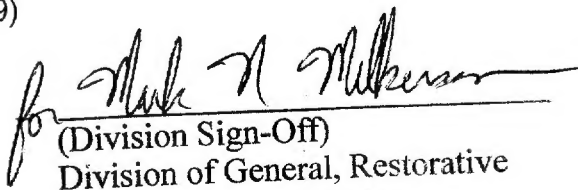
The Vertebral Spacer *Ti* is a vertebral body replacement device intended for use in the thoracolumbar spine (T1-L5) to replace a collapsed, damaged, or unstable vertebral body due to tumor or trauma (i.e., fracture). The Vertebral Spacer *Ti* is intended to be used with Synthes supplemental internal fixation systems, e.g., ATLP, VestroFix, USS and Small Stature USS. The interior of the spacer component of the *Ti* Spacer System can be packed with bone.

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(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use X OR Over-The-Counter Use
(Per 21 CFR 801.109)


(Division Sign-Off)
Division of General, Restorative
and Neurological Devices

510(k) Number K020152